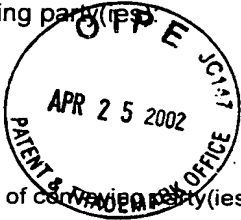


**PATENTS ONLY**

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies)  
Atsushi Shibuya



Additional names(s) of conveying party(ies) ☐ Yes ☒ No

3. Nature of conveyance:  
☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: October 18, 2001

2. Name and address of receiving party(ies):

Name: NEC Corporation

Internal Address: \_\_\_\_\_

**RECEIVED**  
APR 29 2002

Technology Center 2100

Street Address: 7-1, Shiba 5-chome

Minato-ku

City: Tokyo State: JP ZIP: \_\_\_\_\_

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

B. Patent No.(s)

9/983,041

Filed: 10/22/01

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Michael E. Whitham

Internal Address: \_\_\_\_\_

Street Address: Whitham, Curtis & Christofferson, PC

11491 Sunset Hills Road - #340

City: Reston State: VA ZIP: 20190

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):.....\$ 40.00

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

50-2041

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Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael E. Whitham (Reg. No. 32,635)

Name of Person Signing

Signature

Jan. 31, 2002

Date

Total number of pages including cover sheet, attachments, and document:

3

# ASSIGNMENT OF APPLICATION FOR PATENT

WHEREAS Atsushi SHIBUYA of Tokyo, Japan

NAME AND ADDRESS  
OF ASSIGNOR

(HEREINAFTER REFERED TO AS ASSIGNOR), have  
invented and own a certain invention  
entitled: COMMUNICATION SYSTEM, TERMINAL DEVICE

TITLE OF INVENTION:

USED IN COMMUNICATION SYSTEM, AND COMMUNICATION  
METHOD OF DISPLAYING INFORMATIONS

for which a United States Letters Patent  
application is being executed on evendate  
herewith; and

WHEREAS

FULL NAME AND ADDRESS  
OF ASSIGNEE

NEC CORPORATION  
7-1, Shiba 5-chome, Minato-ku,  
Tokyo, JAPAN

(hereinafter referred to as ASSIGNEE), is  
desirous of acquiring the entire interest in,  
to and under said invention and the United  
States Letters Patent to be obtained  
therefor:

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that in consideration of the  
payment of ASSIGNEE to ASSIGNOR of the sum of  
One Dollar (\$1.00), the receipt of which is  
hereby acknowledged, and for other good and  
valuable consideration, ASSIGNOR hereby  
sells, assigns and transfers to ASSIGNEE the  
full and exclusive right, title and interest  
to said invention and all Letters Patent of  
the United States to be obtained therefor on  
said application or any continuation,  
division, renewal, substitute or reissue  
thereof for the full term or terms for which  
the same may be granted.

(Assignment of Application for Patent - page 1 of 2)

ASSIGNOR hereby covenants that no  
assignment, sale, agreement or encumbrance


has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

DATE OF SIGNING

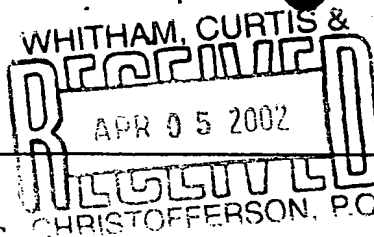
IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 18th day of October, 2001.

SIGNATURE

By: Atsushi Shibuya   
Atsushi SHIBUYA

WITNESS

Takeshi Matsumoto  
[Signature]



APRIL 01, 2002

WHITHAM, CURTIS & CHRISTOFFERSON, PC  
MICHAEL E. WHITHAM  
11491 SUNSET HILLS ROAD- #340  
RESTON, VA 20190

PTAS

Chief Information Officer  
Washington, DC 20231  
www.uspto.gov



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UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/31/2002

REEL/FRAME: 012534/0234  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
SHIBUYA, ATSUSHI

DOC DATE: 10/18/2001

ASSIGNEE:  
NEC CORPORATION  
7-1, SHIBA 5-CHOME, MINATO-KU  
TOKYO, JAPAN

SERIAL NUMBER: 09983041  
PATENT NUMBER:

FILING DATE: 10/22/2001  
ISSUE DATE:

PAULA MCCRAY, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

02-06-2002

ck No.: 01450013aa



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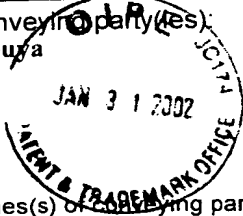
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Patent and Trademark Office

101974430

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Atsushi Shibuya



1-3102

Additional names(s) of conveying party(ies) ☐ Yes ☒ No

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02/05/2002 DBYRNE 00000277 09983041

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01 FC:581 40.00 DP

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael E. Whitham (Reg. No. 32,635)

Name of Person Signing

Signature

Jan. 31, 2002

Date

Total number of pages including cover sheet, attachments, and document:

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(Assignment of Application for Patent - page 1 of 2)

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ASSIGNOR further covenants that ASSIGNEE will upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

DATE OF SIGNING

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 18th day of October, 2001.

SIGNATURE

By: Atsushi Shibuya (Seal)  
Atsushi SHIBUYA

WITNESS

Takeshi Matsumoto  
[Signature]

そして、私／私達は、この書面により譲渡された権利や財産に影響する、如何なる譲渡、授権、抵当権、ライセンス等その他の協定も他の第三者との間で行っていないこと；下記に署名した私／私達によって、この書面に記載されている権利が所有されていることを、当該譲受人、後継者、被譲渡者、及び法定代理人に対して誓約するものである。

さらに、下記に署名した私／私達はこの譲渡書は英語の部分の表現によってのみ解釈されることに同意する。

上記を証明するため、私／私達は下記日付で署名する。

Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

I/WE, the undersigned do further agree that this Assignment is to be construed solely according to the terms of the English language portions thereof.

IN TESTIMONY WHEREOF I/WE have hereunto set MY/OUR signature seal on the date indicated below.

唯一または第一発明者名 北林 雅志		Full name of sole or first inventor Masashi KITABAYASHI	
発明者の署名	日付	Inventor's signature	Date
北林 雅志	2002年1月18日	Masashi Kitabayashi	January 18, 2002
第二共同発明者 (いる場合)		Full name of second joint inventor, if any	
第二共同発明者の署名	日付	Second Inventor's signature	Date
第三共同発明者 (いる場合)		Full name of third joint inventor, if any	
第三共同発明者の署名	日付	Third Inventor's signature	Date
第四共同発明者 (いる場合)		Full name of fourth joint inventor, if any	
第四共同発明者の署名	日付	Fourth Inventor's signature	Date
第五共同発明者 (いる場合)		Full name of fifth joint inventor, if any	
第五共同発明者の署名	日付	Fifth Inventor's signature	Date
第六共同発明者 (いる場合)		Full name of sixth joint inventor, if any	
第六共同発明者の署名	日付	Sixth Inventor's signature	Date
第七共同発明者 (いる場合)		Full name of seventh joint inventor, if any	
第七共同発明者の署名	日付	Seventh Inventor's signature	Date
第八共同発明者 (いる場合)		Full name of eighth joint inventor, if any	
第八共同発明者の署名	日付	Eighth Inventor's signature	Date